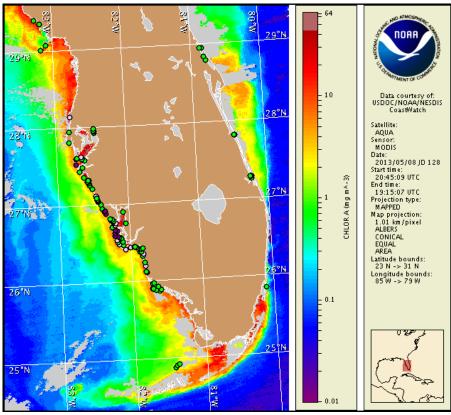


Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida Thursday, 09 May 2013 NOAA National Ocean Service NOAA Satellite and Information Service NOAA National Weather Service Last bulletin: Monday, May 6, 2013



Satellite chlorophyll image with possible *K. brevis* HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from April 29 to May 7: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Florida Fish and Wildlife Conservation Commission (FWC) Fish and Wildlife Research Institute. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

http://tidesandcurrents.noaa.gov/hab/habfs_bulletin_guide.pdf

Detailed sample information can be obtained through FWC Fish and Wildlife Research Institute at: http://myfwc.com/redtidestatus

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit at: $\frac{\text{http://tidesandcurrents.noaa.gov/hab/bulletins.html}}{\text{http://tidesandcurrents.noaa.gov/hab/bulletins.html}}$

Conditions Report

Background to very low concentrations of Karenia brevis (commonly known as Florida red tide) are present along- and offshore southwest Florida. In the bay regions of central Lee County, patchy very low respiratory impacts are possible today through Monday. No respiratory impacts are expected elsewhere alongshore southwest Florida, including the Florida Keys, today through Monday, May 13.

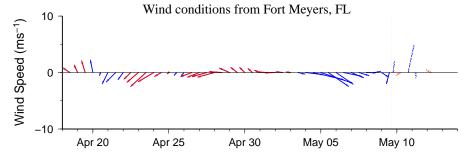
Analysis

Recent samples collected in the bay regions of Charlotte and northern and central Lee County indicate *Karenia brevis* concentrations continue to range between 'not present' and 'very low a' (FWRI; 5/6-7). Samples collected alongshore northern Pinellas County, in the bay regions of southern Pinellas and northern Manatee counties, in the bay regions of southern Lee County and in Collier County indicate *K. brevis* continues to range between 'not present' and 'background' concentrations (FWRI; 5/3-6). All other samples collected along- and offshore southwest Florida, including alongshore Sarasota County, indicate 'not present' concentrations of *K. brevis* (FWRI; 5/7). No dead fish or respiratory irritation associated with *K. brevis* have been reported in the past week.

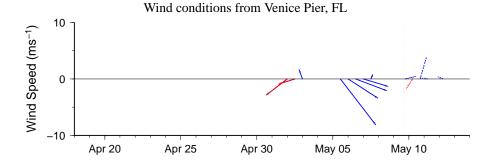
Over the past few days, MODIS Aqua imagery has been partially obscured by clouds, limiting analysis. In MODIS imagery from May 8 (shown left), patches of elevated chlorophyll (2-6 μ g/L) are visible along- and offshore southwest Florida from Pinellas to Lee counties, with patches of elevated to high chlorophyll (2 to >10 μ g/L) visible along- and offshore Collier and northern Monroe counties and the gulfside of the Florida Keys. The anomalously high patch of elevated chlorophyll noted in previous bulletins remains visible in imagery along- and offshore Charlotte and Lee counties (2-6 μ g/L).

Variable winds forecasted through Monday may minimize transport of *K. brevis* concentrations.

Kavanaugh, Yang



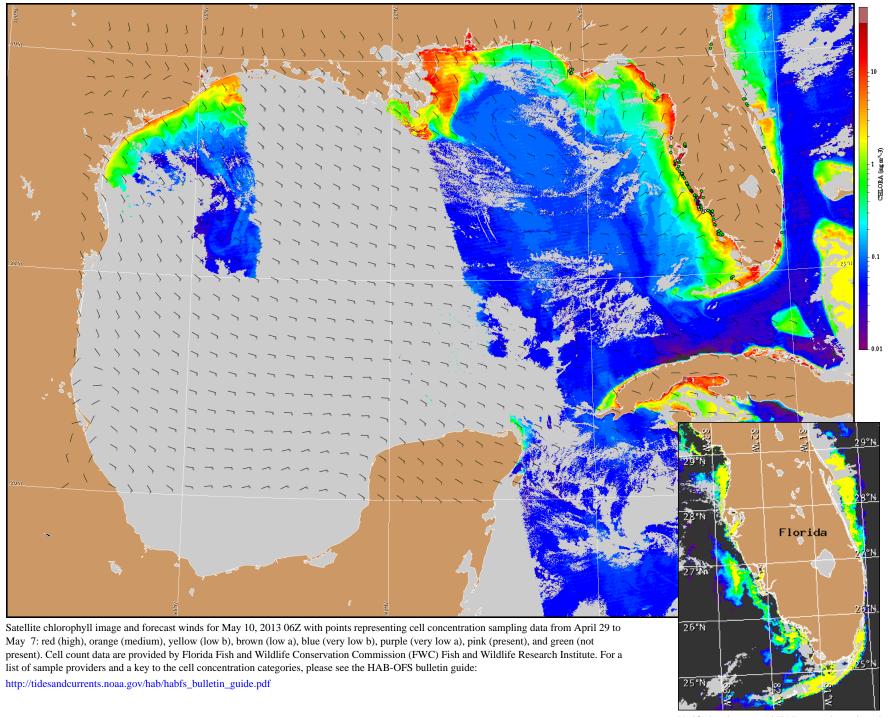
Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).



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Wind Analysis

Southwest Florida: North winds (10 kn, 5 m/s) today becoming west to northwest winds (10 kn) in the afternoon. Northeast to east winds (10 kn) Friday becoming southwest to south winds (10 kn) Friday afternoon through Saturday. West to northwest winds (5-10 kn, 3-5 m/s) Saturday night through early Sunday morning. South winds (10 kn) Sunday becoming west winds in the late morning. North winds (5-10 kn, 3-5 m/s) Sunday night becoming northwest winds (15 kn, 8 m/s) Monday afternoon.



Verified and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).